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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,605	12/22/2003	Engne Tang	SHER-1A	7561
	7590 09/21/2007 Pandiscio & Pandiscio, P.C.		EXAMINER	
470 Totten Pond Road			MONIKANG, GEORGE C	
Waltham, MA 02451-1914		•	ART UNIT	PAPER NUMBER
			. 2615	
			MAIL DATE	DELIVERY MODE
	•		09/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/743,605	TANG, ENGNE		
Office Action Summary	Examiner	Art Unit		
	George C. Monikang	2615		
The MAILING DATE of this communicated Period for Reply	ation appears on the cover sheet wit	h the correspondence address		
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun  - If NO period for reply is specified above; the maximum statut  - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNIC 37 CFR 1.136(a). In no event, however, may a re- ication. ory period will apply and will expire SIX (6) MON I, by statute, cause the application to become AB	CATION.  Apply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).		
Status				
<ul> <li>1) Responsive to communication(s) filed</li> <li>2a) This action is FINAL.</li> <li>3) Since this application is in condition for closed in accordance with the practice</li> </ul>	)⊠ This action is non-final. r allowance except for formal matte	• •		
Disposition of Claims				
4) ⊠ Claim(s) 1-3 is/are pending in the appl 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration.			
Application Papers		•		
9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the content of the content	n) accepted or b) objected to bon to the drawing(s) be held in abeyanded correction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) \( \overline{\text{N}} \) Notice of References Cited (PTO-892)  2) \( \overline{\text{D}} \) Notice of Draftsperson's Patent Drawing Review (PTO		ummary (PTO-413) /Mail Date		
Notice of Draftsperson's Patent Drawing Review (PTO     Information Disclosure Statement(s) (PTO/SB/08).  Paper No(s)/Mail Date		formal Patent Application		

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 & 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Sahyoun, US Patent 5,532,649.

Re Claim 1, Sahyoun discloses a load detection circuit for determining when (1) a loudspeaker load is properly connected at a set of loudspeaker terminals (<u>abstract</u>, <u>col. 7, lines 13-22</u>), (2) a loudspeaker load is improperly connected at the loudspeaker terminals (<u>abstract</u>, <u>col. 7, lines 13-22</u>), and (3) no loudspeaker load is connected at the loudspeaker terminals (<u>abstract</u>, <u>col. 7, lines 13-22</u>).

Re Claim 3, Sahyoun discloses a load detection circuit according to claim 1, wherein the load detection circuit comprises two light emitting diodes packaged in a single housing (*fig. 4a*), and further wherein one of the two light emitting diodes is a green diode and the other one of the two light emitting diodes is a red diode (*abstract; col. 9, lines 9-15*), the load detection circuit being configured to (I) light tie green diode when the loudspeaker load is properly connected at the loudspeaker terminals (*abstract; col. 9, lines 9-15*), (2) light the red diode when the loudspeaker load is improperly connected at the loudspeaker terminals (*abstract; col. 9, lines 9-15*), and (3)

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light both the green diode and the red diode together when there is no loudspeaker load connected at the loudspeaker terminals (<u>abstract; col. 9, lines 9-15</u>).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sahyoun, US Patent 5,532,649 as applied to claim 1 above, and further in view of Kokubo et al, US Patent 5,973,555.

Re Claim 2, Sahyoun discloses a load detection circuit according to claim 1, but fails to disclose wherein the load detection circuit comprises two operational amplifiers. However, Kokubo et al does (<u>fig. 3</u>; <u>abstract</u>).

Taking the combined teachings of Sahyoun and Kokubo et al as a whole, one skilled in the art would have found it obvious to modify the load detection circuit

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according to Sahyoun with disclose wherein the load detection circuit comprises two

operational amplifiers as taught in Kokubo et al (fig. 3; abstract) to provide amplifiers

with high gain that can determine the output voltage of any given input

Contact

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to George C. Monikang whose telephone number is 571-

270-1190. The examiner can normally be reached on M-F. alt Fri. Off 7:30am-5:00pm

(est).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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George Monikang

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